

SEQUENCE LISTING

<110> Mochly-Rosen, Daria

<120> Peptides for Activation and Inhibition
of delta-PKC

<130> 58600-8208.US00

<140> Not Yet Assigned
<141> Filed Herewith

<150> US 60/262,060

<151> 2001-01-18

<160> 72

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> epsilon V1-2, residues 14-21 of epsilon-PKC

<400> 1

Glu Ala Val Ser Leu Lys Pro Thr
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<210> 2

<211> 141

<212> PRT

<213> Rattus norvegicus

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Met Ala Pro Phe Leu Arg Ile Ser Phe Asn Ser Tyr Glu Leu Gly Ser
1 5 10 15

Leu Gln Ala Glu Asp Asp Ala Ser Gln Pro Phe Cys Ala Val Lys Met
20 25 30

Lys Glu Ala Leu Thr Thr Asp Arg Gly Lys Thr Leu Val Gln Lys Lys
35 40 45

Pro Thr Met Tyr Pro Glu Trp Lys Ser Thr Phe Asp Ala His Ile Tyr
50 55 60

Glu Gly Arg Val Ile Gln Ile Val Leu Met Arg Ala Ala Glu Asp Pro
65 70 75 80

Met Ser Glu Val Thr Val Gly Val Ser Val Leu Ala Glu Arg Cys Lys
85 90 95

Lys Asn Asn Gly Lys Ala Glu Phe Trp Leu Asp Leu Gln Pro Gln Ala
100 105 110

Lys Val Leu Met Cys Val Gln Tyr Phe Leu Glu Asp Gly Asp Cys Lys
115 120 125

Gln Ser Met Arg Ser Glu Glu Ala Met Phe Pro Thr
130 135 140

<210> 3

<211> 124

<212> PRT

<213> Mus musculus

<400> 3

Met Ser Pro Phe Leu Arg Ile Gly Leu Ser Asn Phe Asp Cys Gly Ser
1 5 10 15

Cys Gln Ser Cys Gln Gly Glu Ala Val Asn Pro Tyr Cys Ala Val Leu
20 25 30
Val Lys Glu Tyr Val Glu Ser Glu Asn Gly Gln Met Tyr Ile Gln Lys
35 40 45
Lys Pro Thr Met Tyr Pro Pro Trp Asp Ser Thr Phe Asp Ala His Ile
50 55 60
Asn Lys Gly Arg Val Met Gln Ile Ile Val Lys Gly Lys Asn Val Asp
65 70 75 80
Leu Ile Ser Glu Thr Thr Val Glu Leu Tyr Ser Leu Ala Glu Arg Cys
85 90 95
Arg Lys Asn Asn Gly Lys Thr Glu Ile Trp Leu Glu Leu Lys Pro Gln
100 105 110
Gly Arg Met Leu Met Asn Ala Arg Tyr Phe Leu Glu
115 120

<210> 4
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<213> Rattus norvegicus

<400> 4
Ser Phe Asn Ser Tyr Glu Leu Gly Ser Leu
1 5 10

<210> 5
<211> 10
<212> PRT
<213> Rattus norvegicus

<400> 5
Ala Leu Thr Thr Asp Arg Gly Lys Leu Val
1 5 10

<210> 6
<211> 8
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<213> Rattus norvegicus

<400> 6
Met Arg Ala Ala Glu Asp Pro Met
1 5

<210> 7
<211> 58
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<213> Rattus norvegicus

<400> 7
Pro Phe Arg Pro Lys Val Lys Ser Pro Arg Asp Tyr Ser Asn Phe Asp
1 5 10 15
Gln Glu Phe Leu Asn Glu Lys Ala Arg Leu Ser Tyr Ser Asp Lys Asn
20 25 30
Leu Ile Asp Ser Met Asp Gln Ser Ala Phe Ala Gly Phe Ser Phe Val
35 40 45
Asn Pro Lys Phe Glu His Leu Leu Glu Asp
50 55

<210> 8
<211> 17
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<213> Artificial Sequence

<220>
<223> Drosophila Antennapedia homeodomain-derived
carrier peptide

<400> 8
Cys Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
1 5 10 15
Lys

<210> 9
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Tat-derived carrier peptide

<400> 9
Tyr Gly Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

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<220>
<223> beta-PKC-selective activator peptide

<400> 10
Ser Val Glu Ile Trp Asp
1 5

<210> 11
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<220>
<223> modified pseudo-delta RACK peptide

<400> 11
Met Lys Ala Ala Glu Asp Pro Met
1 5

<210> 12
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<220>
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<400> 12
Met Arg Gly Ala Glu Asp Pro Met
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<400> 13
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<210> 14

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<400> 14

Met Arg Ala Pro Glu Asp Pro Met

1 5

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Met Arg Ala Asn Glu Asp Pro Met

1 5

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<400> 16

Met Arg Ala Ala Asp Asp Pro Met

1 5

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<211> 8

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<400> 17

Met Arg Ala Ala Glu Asp Pro Val

1 5

<210> 18

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> modified pseudo-delta RACK peptide

<400> 18

Met Arg Ala Ala Glu Asp Pro Ile

1 5

<210> 19

<211> 8

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<400> 20
Glu Asp Pro Met
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<210> 21
<211> 5
<212> PRT
<213> Rattus norvegicus

<400> 21
Ala Glu Asp Pro Met
1 5

<210> 22
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<400> 22
Met Arg Ala Ala Glu Asp Met Pro
1 5

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Met Glu Ala Ala Glu Asp Pro Met
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<400> 24
Met Asp Ala Ala Glu Asp Pro Met
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<400> 25
Met Arg Ala Ala Glu Glu Pro Leu
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<400> 29
Met Arg Ala Ala Glu Asp Pro Val
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<220>
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<400> 31
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Met Arg Ala Ala Glu Gln Pro Met
1 5

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<400> 33
Met Arg Ala Ala Glu Asn Pro Met
1 5

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<400> 34
Thr Phe Asn Ser Tyr Glu Leu Gly Ser Leu
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Ser Phe Asn Ser Tyr Glu Leu Gly Thr Leu
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<400> 38
Ser Tyr Asn Ser Tyr Glu Leu Gly Ser Leu
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<400> 39
Ser Phe Asn Ser Phe Glu Leu Gly Ser Leu
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<400> 40
Ser Asn Ser Tyr Asp Leu Gly Ser Leu
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<210> 41
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<210> 42
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<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 42
Ser Phe Asn Ser Tyr Glu Ile Gly Ser Val
1 5 10

<210> 43
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<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 43
Ser Phe Asn Ser Tyr Glu Val Gly Ser Ile
1 5 10

<210> 44
<211> 10
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<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 44
Ser Phe Asn Ser Tyr Glu Leu Gly Ser Val
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<210> 45
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<210> 46
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<213> Artificial Sequence

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Ser Phe Asn Ser Tyr Glu Ile Gly Ser Leu

1 5

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<210> 47
<211> 10
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<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 47
Ser Phe Asn Ser Tyr Glu Val Gly Ser Leu
1 5 10

<210> 48
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<213> Artificial Sequence

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<223> modified delta V1-1 peptide

<400> 48
Ala Phe Asn Ser Tyr Glu Leu Gly Ser Leu
1 5 10

<210> 49
<211> 6
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<213> Rattus norvegicus

<400> 49
Tyr Glu Leu Gly Ser Leu
1 5

<210> 50
<211> 6
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<220>
<223> modified fragment of delta V1-1 peptide

<400> 50
Tyr Asp Leu Gly Ser Leu
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<210> 51
<211> 6
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<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 51
Phe Asp Leu Gly Ser Leu
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<210> 52
<211> 6
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<213> Artificial Sequence

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<223> modified fragment of delta V1-1 peptide

<400> 52

Tyr Asp Ile Gly Ser Leu
1 5

<210> 53

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> modified fragment of delta V1-1 peptide

<400> 53

Tyr Asp Val Gly Ser Leu
1 5

<210> 54

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> modified fragment of delta V1-1 peptide

<400> 54

Tyr Asp Leu Pro Ser Leu
1 5

<210> 55

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> modified fragment of delta V1-1 peptide

<400> 55

Tyr Asp Leu Gly Leu Leu
1 5

<210> 56

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> modified fragment of delta V1-1 peptide

<400> 56

Tyr Asp Leu Gly Ser Ile
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<210> 57

<211> 6

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<213> Artificial Sequence

<220>

<223> modified fragment of delta V1-1 peptide

<400> 57

Tyr Asp Leu Gly Ser Val
1 5

<210> 58
<211> 4
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<213> Rattus norvegicus

<400> 58
Leu Gly Ser Leu
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<210> 59
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 59
Ile Gly Ser Leu
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<210> 60
<211> 4
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<400> 60
Val Gly Ser Leu
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<210> 61
<211> 4
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<223> modified fragment of delta V1-1 peptide

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Leu Pro Ser Leu
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<210> 62
<211> 4
<212> PRT
<213> Artificial Sequence

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<223> modified fragment of delta V1-1 peptide

<400> 62
Leu Gly Leu Leu
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<210> 63
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
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<400> 63
Leu Gly Ser Ile
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<210> 64
<211> 4
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<223> modified fragment of delta V1-1 peptide

<400> 64
Leu Gly Ser Val
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<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

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1 5 10

<210> 66
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<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 66
Ala Leu Thr Ser Asp Arg Gly Lys Thr Leu Val
1 5 10

<210> 67
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 67
Ala Leu Thr Thr Asp Arg Gly Lys Ser Leu Val
1 5 10

<210> 68
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 68
Ala Leu Thr Thr Asp Arg Pro Lys Thr Leu Val
1 5 10

<210> 69
<211> 11
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<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

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Ala Leu Thr Thr Asp Arg Gly Arg Thr Leu Val
1 5 10

<210> 70
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 70
Ala Leu Thr Thr Asp Lys Gly Lys Thr Leu Val
1 5 10

<210> 71
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 71
Ala Leu Thr Thr Asp Lys Gly Lys Thr Leu Val
1 5 10

<210> 72
<211> 320
<212> PRT
<213> Homo sapiens

<400> 72
Met Ala Gln Val Leu Arg Gly Thr Val Thr Asp Phe Pro Gly Phe Asp
1 5 10 15
Glu Arg Ala Asp Ala Glu Thr Leu Arg Lys Ala Met Lys Gly Leu Gly
20 25 30
Thr Asp Glu Glu Ser Ile Leu Thr Leu Leu Thr Ser Arg Ser Asn Ala
35 40 45
Gln Arg Gln Glu Ile Ser Ala Ala Phe Lys Thr Leu Phe Gly Arg Asp
50 55 60
Leu Leu Asp Asp Leu Lys Ser Glu Leu Thr Gly Lys Phe Glu Lys Leu
65 70 75 80
Ile Val Ala Leu Met Lys Pro Ser Arg Leu Tyr Asp Ala Tyr Glu Leu
85 90 95
Lys His Ala Leu Lys Gly Ala Gly Thr Asn Glu Lys Val Leu Thr Glu
100 105 110
Ile Ile Ala Ser Arg Thr Pro Glu Glu Leu Arg Ala Ile Lys Gln Val
115 120 125
Tyr Glu Glu Tyr Gly Ser Ser Leu Glu Asp Asp Val Val Gly Asp
130 135 140
Thr Ser Gly Tyr Tyr Gln Arg Met Leu Val Val Leu Leu Gln Ala Asn
145 150 155 160
Arg Asp Pro Asp Ala Gly Ile Asp Glu Ala Gln Val Glu Gln Asp Ala
165 170 175
Gln Ala Leu Phe Gln Ala Gly Glu Leu Lys Trp Gly Thr Asp Glu Glu

180 185 190
Lys Phe Ile Thr Ile Phe Gly Thr Arg Ser Val Ser His Leu Arg Lys
195 200 205
Val Phe Asp Lys Tyr Met Thr Ile Ser Gly Phe Gln Ile Glu Glu Thr
210 215 220
Ile Asp Arg Glu Thr Ser Gly Asn Leu Glu Gln Leu Leu Ala Val
225 230 235 240
Val Lys Ser Ile Arg Ser Ile Pro Ala Tyr Leu Ala Glu Thr Leu Tyr
245 250 255
Tyr Ala Met Lys Gly Ala Gly Thr Asp Asp His Thr Leu Ile Arg Val
260 265 270
Met Val Ser Arg Ser Glu Ile Asp Leu Phe Asn Ile Arg Lys Glu Phe
275 280 285
Arg Lys Asn Phe Ala Thr Ser Leu Tyr Ser Met Ile Lys Gly Asp Thr
290 295 300
Ser Gly Asp Tyr Lys Lys Ala Leu Leu Leu Cys Gly Glu Asp Asp
305 310 315 320